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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/871,467	05/31/2001	Liang Chen	25094A 1738 EXAMINER		
22889	7590 09/07/2004				
OWENS CORNING 2790 COLUMBUS ROAD			WYROZEBSKI LEE, KATARZYNA I		
GRANVILLE,			ART UNIT PAPER NUMBER		
			1714		
			DATE MAILED: 09/07/2004	ļ	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicat	ion No.	Applicant(s)	
	09/871,4		CHEN ET AL.),
Office Action Summary	Examine		Art Unit	
The MAILING DATE of this commu		a Wyrozebski	the correspondence ad	droce
Period for Reply	аррошо оп и.		anc correspondence au	uress
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this common lift the period for reply specified above is less than thirty (3). If NO period for reply is specified above, the maximum some paraller to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no exmunication. 30) days, a reply within the statatutory period will apply and v	vent, however, may a reply tutory minimum of thirty (3 vill expire SIX (6) MONTHS	be timely filed O) days will be considered timely from the mailing date of this co	r. mmunication.
Status				
1) Responsive to communication(s) file	ed on 14 June 2004.			
	2b)⊠ This action is r	non-final.		
3) Since this application is in condition			, prosecution as to the	merits is
closed in accordance with the pract				
Disposition of Claims				
·	1 24 20 in/one naudius			
4)⊠ Claim(s) <u>1,4-10,12,13,16,18,19 and</u> 4a) Of the above claim(s) is/a				
5) Claim(s) is/are allowed.	are withdrawn hom to	insideration.		
6) Claim(s) <u>1,4-10,12,13,16,18,19 and</u>	121 20 inlara rainatad			
7) Claim(s) is/are objected to.	<u>121-20</u> IS/AI e Tejecteu	•		
8) Claim(s) are subject to restrict	ction and/or election r	equirement		
Application Papers		oquironioni.		
9) The specification is objected to by th				
10) The drawing(s) filed on is/are:				
Applicant may not request that any obje				
Replacement drawing sheet(s) including				
11)☐ The oath or declaration is objected to	o by the Examiner. No	ote the attached Of	fice Action or form PT	O-152.
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim	for foreign priority un	der 35 U.S.C. § 11	9(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		J		
1. Certified copies of the priority	documents have bee	n received.		
2. Certified copies of the priority			cation No.	
3. Copies of the certified copies				Stage
application from the Internatio				
* See the attached detailed Office actio			eived.	
		,		
Attachmont(c)				
Attachment(s) Notice of References Cited (PTO-892)		Λ Π In-ternal - 0	(DTO 440)	
 Proceed Releases Cited (FTO-692) Discount Review (P Notice of Draftsperson's Patent Drawing Review (P 	PTO-948)	4) Interview Sumn Paper No(s)/Ma		
3) Information Disclosure Statement(s) (PTO-1449 or		5) Notice of Inform	nal Patent Application (PTO-	152)
Paper No(s)/Mail Date		6) Other:		
6. Patent and Trademark Office FOL-326 (Rev. 1-04)	Office Action Summa	rv	Part of Paper No./Ma	il Date 0904

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In view of recently re-evaluated prior art of HUMMERICH and CHEN following office action is non-final. Upon further researching the topic, the examiner takes official notice that presence of mineral oil as dust suppression agent is an invariable ingredient for health reasons, since it prevents fiber glass dust from going airborne. Therefore use of such oil is common in the industry (NPL of 1988 International Program on Chemical Safety is attached for applicant's convenience). Therefore all the prior art of record as found is viewed in the light of provided teaching. In addition, it is examiner's position that if the amount of surfactant is added in the amount disclosed in the dependent claims, surface tension requirement will satisfied.

Examiner also acknowledges cancellation of claims 2, 3, 11, 14, 15, 17, 20.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 4-10, 12, 13, 16, 18, 19, 21-28 are rejected under 35 U.S.C. 102(e) as being anticipated by HUMMERICH (US 6,071,994) in view of evidence given in CHEN (US 6,274,661) or SVEND (EP 567 480).

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The prior art of HUMMERICH discloses composition for fiber glass adhesive comprising following:

Polycarboxy binder (col. 2),

Polyhydroxy crosslinking agent (col. 3),

Surfactants (col. 3) in amount of 0.05-20 % by weight,

Oils (col. 10)

Coupling agents (col. 10).

The solids content of the composition of HUMMERICH is between 15 % (example col. 12) and 50.2 (Table col. 11).

With respect to the process of forming the fiber mat, the prior art of HUMMERICH refers to the disclosures of CHEN and EP 567 480. The processes defined in CHEN are referred to as those common in the art.

Step 1 of claim in HUMERICH col. 10, lines 30-32 is described as utilized where fiber mats are formed by melt spinning, which implies molten glass. For step 1 of the process claim HUMMERIC refers to EP patent where it is indicated that the fibers are formed on a moving conveyor that is blown downwardly within a forming chamber. Step 3 is inherent in view of claim 1. For step 4 and 5, HUMMERICH also refers to EP document and the aqueous binder solution is preferably sprayed onto the freshly prepared fibers while they are still hot. CHEN further provides evidence about common curing temperatures and times for such binders and fibers, which is 200-350°C for about ¼ to 3 minutes. In other words, the process of applicant's claim 18 is well known in the art.

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In the light of the above discussion the prior art of HUMMERICH anticipates requirements of claims rejected above.

3. Claims 1, 4-10, 12, 13, 16, 18, 19, 21-28 are rejected under 35 U.S.C. 102(b) as being anticipated by RECK (US 6,099,773) in view of evidence in (CHEN (US 6,2743661) or (EP 567,480).

The prior art of Reck discloses composition for a binder system utilized with fibers,

which comprises polymer, crosslinking agent and surfactant.

According to the examples the polymer utilized in the prior art of Reck (col. 10) includes polyacrylic acid, as well as its copolymer with maleic acid. The crosslinking according to the same examples is triethanolamine amine. Crosslinking agents are utilized in an amount of 10 ppm to 5% by weight (col. 6, line 7).

According to the specification of the prior art of Reck, one of ordinary skill in the art is also enabled to utilize emulsifiers such as ethylene oxide/propylene oxide copolymers (col. 6, line 20), which is also well known surfactant. Other emulsifiers, which can also be utilized are surfactants include alkyl phenol ethoxylates, fatty acids ethoxylates, sulfur containing alkyl phenols. Such compounds can be utilized in an amount of 0.05-20 wt %.

The prior art of Reck forms aqueous composition, having solids content of 44.5 and 50 % (see examples, col. 10).

The process involves steps of applying binder composition to fibers by spraying and curing it (col. 9, lines 30-55). Sprayed fibers care then pressed at a temperature of 100-250°C for 15 sec-30 min. to give stable product.

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The prior art of CHEN further provides for otherwise common in the art process of preparing fiber glass mats and use of oils (col. 5 and 6).

In the light of the above disclosure, the prior art of RECK in view of evidence given in CHEN anticipates requirements of claims rejected above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski whose telephone number is (571) 272-1127. The examiner can normally be reached on Mon-Thurs 6:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Katorkinaliyoreboki Katarzyna Wyrozebski Primary Even:

Primary Examiner

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